# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 11/25/2021 09:00 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 10:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124545 | -1 | 1.25 | 124444 | 1.25 |
| Blue | F | SSC | 125000 | 120661 | -4 | 2.57 | 120925 | 2.43 |
| Blue | E | FITC | 13131 | 12690 | -4 | 2.28 | 292 | 15.99 |
| Blue | D | PE | 24112 | 23654 | -2 | 1.66 | 542 | 10.98 |
| Blue | B | PerCP-Cy5-5 | 31295 | 30471 | -3 | 3.07 | 1006 | 14.80 |
| Blue | A | PE-Cy7 | 19939 | 19452 | -3 | 5.32 | 519 | 29.90 |
| Red | C | APC | 42122 | 40573 | -4 | 3.07 | 1696 | 11.56 |
| Red | A | APC-Cy7 | 22340 | 21704 | -3 | 3.46 | 815 | 12.02 |
| Violet | B | V450 | 7410 | 7014 | -6 | 3.86 | 427 | 12.99 |
| Violet | A | V500 | 28118 | 26654 | -6 | 3.47 | 663 | 10.08 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23119 | 1.29 | 566 | -3 | N/A | N/A | Pass |
| Blue | F | SSC | 56373 | 1.10 | 519 | 7 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 54.62 | 486 | -1 | 0.0382 | 89 | Pass |
| Blue | D | PE | 114 | 37.07 | 489 | 1 | 0.3743 | 275 | Pass |
| Blue | B | PerCP-Cy5-5 | 188 | 36.22 | 585 | -1 | 0.0190 | 56 | Pass |
| Blue | A | PE-Cy7 | 104 | 69.05 | 627 | -1 | 0.0208 | 0 | Pass |
| Red | C | APC | 393 | 24.02 | 579 | 3 | 0.0269 | 147 | Pass |
| Red | A | APC-Cy7 | 181 | 28.05 | 555 | 4 | 0.0058 | 854 | Pass |
| Violet | B | V450 | 60 | 64.70 | 456 | 3 | 0.0554 | 2205 | Pass |
| Violet | A | V500 | 95 | 35.79 | 467 | 2 | 0.0258 | 1005 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 11/25/2021 09:00 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 10:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.74 | -31.44 | 1.10 |
| Blue | 20.34 | 16.28 - 24.42 | 1.29 | 1.02 - 1.52 | 0.00 | 0.00 | 1.44 |
| Red | 15.17 | 13.60 - 20.40 | N/A | N/A | 29.93 | 30.15 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.76

## Threshold

Threshold (FSC): 10902

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments